

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	11	fixed adj fluidized adj bed with sorbent and sorbent same zinc adj oxide same sulfur	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/28 18:59
L2	11	fixed adj fluidized adj bed with sorbent and sorbent same zinc adj oxide same sulfur	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/28 18:59
L3	1	(fixed adj fluidized adj bed with sorbent and sorbent same zinc adj oxide same sulfur).clm.	US-PGPUB	OR	ON	2008/03/28 19:00
S1	14	US-5656243-\$.DID. OR US-5453254-\$.DID. OR US-4746752-\$.DID. OR US-4456504-\$.DID. OR US-6184176-\$.DID. OR US-3851405-\$.DID. OR US-2931711-\$.DID. OR US-4337120-\$.DID. OR US-3850582-\$.DID. OR US-5914292-\$.DID. OR US-2951034-\$.DID. OR US-4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 17:07
S2	209	("1686349"   "2455561"   "2536099"   "2538833"   "2601676"   "2611685"   "2649358"   "2687343"   "2690962"   "2718491"   "2760855"   "2774726"   "2783187"   "2834648"   "2850808"   "2866696"   "2884373"   "2892773"   "2893851"   "2903800"   "2931711"   "2933824"   "2944009"   "2948671"   "2952617"   "3031769"   "3097156"   "3206393"   "3258409"   "3264209"   "3322511"   "3353925"   "3399222"   "3445200"   "3465019"   "3482946"   "3705086"   "3717440"   "3771261"   "3783528"   "3844734"   "3895936"   "3910849"   "3982900"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:27

		"4029752"   "4044114"   "4081253"   "4088736"   "4135885"   "4157245"   "4175928"   "4199432"   "4224140"   "4287050"   "4298460"   "4313820"   "4325812"   "4333855"   "4334920"   "4371458"   "4371507"   "4371728"   "4376698"   "4389304"   "4389305"   "4409101"   "4476816"   "4559719"   "4612115"   "4691031"   "4698913"   "4799937"   "4824360"   "4826800"   "4847054"   "4855111"   "4973457"   "4988490"   "5045522"   "5077261"   "5145650"   "5155086"   "5157201"   "5202057"   "5248489"   "5254516"   "5273720"   "5358921"   "5494880"   "5703003"   "5710089"   "5985169"). PN. OR ("2931711"   "2951034"   "3850582"   "3851405"   "4337120"   "4456504"   "4746752"   "4897179"   "5453254"   "5656243"   "5914292"   "6184176").URPN.				
S3	1145	208/208R,247,299.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/30 19:19
S4	0	S3 and S1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:27
S5	16	S3 and S2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:52
S6	11	gas\$4 with hydrocarbon with desulfuriz\$5 with solid adj sorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:55
S7	0	S6 and S1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:54
S8	1	S6 and S2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:55

S9	8	S6 and S3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:55
S10	12	gas\$4 with hydrocarbon with desulfuriz\$5 with solid adj \$2sorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:56
S11	59	gas\$4 with hydrocarbon with desulfuriz\$5 with \$2sorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 14:48
S12	0	S11 and S1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:56
S13	4	S11 and S2	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:57
S14	23	S11 and S3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 11:57
S15	0	desulfuriz\$5 with hydrocarbon with disengagement with \$2sorbent	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:05
S16	8	hydrocarbon with desulfuriz \$5 and \$2sorbent with baffle	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:23
S17	23	desulfuriz\$5 and \$2sorbent with baffle	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:23
S18	0	desulfuriz\$5 and \$2sorbent with (inject\$2 or feed or fed or enter\$2) with (below or under or underneath) with baffle	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:25
S19	5	desulfuriz\$5 and \$2sorbent with (below or under or underneath) with baffle	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:27
S20	1145	208/208R,247,299.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 13:27
S21	4	S20 and \$2sorbent with (below or under or underneath) with baffle	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:29
S22	0	S20 and \$2sorbent with (below or under or underneath) with plate	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:30
S23	157	S20 and \$2sorbent with (below or under or underneath)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 13:30

S24	1145	208/208R,247,299.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 14:48
S25	67	S24 and desulfuriz\$5 with \$2sorbent	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/05 14:48
S26	14	US-5656243-\$.DID. OR US- 5453254-\$.DID. OR US- 4746752-\$.DID. OR US- 4456504-\$.DID. OR US- 6184176-\$.DID. OR US- 3851405-\$.DID. OR US- 2931711-\$.DID. OR US- 4337120-\$.DID. OR US- 3850582-\$.DID. OR US- 5914292-\$.DID. OR US- 2951034-\$.DID. OR US- 4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 17:07
S27	0	S26 and Geldart adj classification	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 17:08
S28	1	S26 and Geldart	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 17:07
S29	33	Geldart adj classification	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:43
S30	2	Group adj A adj Geldart adj classification	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/05 17:08
S31	14	US-5656243-\$.DID. OR US- 5453254-\$.DID. OR US- 4746752-\$.DID. OR US- 4456504-\$.DID. OR US- 6184176-\$.DID. OR US- 3851405-\$.DID. OR US- 2931711-\$.DID. OR US- 4337120-\$.DID. OR US- 3850582-\$.DID. OR US- 5914292-\$.DID. OR US- 2951034-\$.DID. OR US- 4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:30
S32	2	S31 and (gasoline or diesel)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:30
S33	71	Geldart with classification	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:43

S34	0	S31 and reducer	USPAT	OR	OFF	2006/06/06 15:55
S35	1145	208/208R,247,299.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/06 15:59
S36	3	S35 and reducer	USPAT	OR	OFF	2006/06/06 15:56
S37	17	S35 and reducer	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:57
S38	209	("1686349"   "2455561"   "2536099"   "2538833"   "2601676"   "2611685"   "2649358"   "2687343"   "2690962"   "2718491"   "2760855"   "2774726"   "2783187"   "2834648"   "2850808"   "2866696"   "2884373"   "2892773"   "2893851"   "2903800"   "2931711"   "2933824"   "2944009"   "2948671"   "2952617"   "3031769"   "3097156"   "3206393"   "3258409"   "3264209"   "3322511"   "3353925"   "3399222"   "3445200"   "3465019"   "3482946"   "3705086"   "3717440"   "3771261"   "3783528"   "3844734"   "3895936"   "3910849"   "3982900"   "4029752"   "4044114"   "4081253"   "4088736"   "4135885"   "4157245"   "4175928"   "4199432"   "4224140"   "4287050"   "4298460"   "4313820"   "4325812"   "4333855"   "4334920"   "4371458"   "4371507"   "4371728"   "4376698"   "4389304"   "4389305"   "4409101"   "4476816"   "4559719"   "4612115"   "4691031"   "4698913"   "4799937"   "4824360"   "4826800"   "4847054"   "4855111"   "4973457"   "4988490"   "5045522"   "5077261"   "5145650"   "5155086"   "5157201"   "5202057"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/06 15:57

		"5248489"   "5254516"   "5273720"   "5358921"   "5494880"   "5703003"   "5710089"   "5985169"). PN. OR ("2931711"   "2951034"   "3850582"   "3851405"   "4337120"   "4456504"   "4746752"   "4897179"   "5453254"   "5656243"   "5914292"   "6184176").URPN.				
S39	2	S38 and reducer	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 15:57
S40	1414	oxid\$5 with \$2sorbent with reduc\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/06/06 16:00
S41	1414	oxid\$5 with \$2sorbent with reduc\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:01
S42	258	oxid\$5 with \$2sorbent with regenerat\$4 with reduc\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:25
S43	18	oxid\$5 with \$2sorbent with regenerat\$4 with reducer	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:20
S44	173	oxid\$5 with \$2sorbent with regenerat\$4 with hydrogen	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:22
S45	19	oxid\$5 with \$2sorbent with reducer with hydrogen	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:23
S46	17	oxid\$5 with \$2sorbent with reducer with valence	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:24
S47	17	\$2sorbent with reducer with valence	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:24
S48	17	\$2sorbent with reducer with valence	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:24
S49	25	reducer with valence	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/29 16:09
S50	32	oxid\$5 with \$2sorbent with regenerat\$4 with reduc\$4 with valence	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/06 16:25

S51	36	("1686349"   "2538833"   "2611685"   "2649358"   "2690962"   "2850808"   "2866696"   "2884373"   "2903800"   "2933824"   "2944009"   "3717440"   "3910849"   "4409101"   "4476816"   "4559719"   "4612115"   "4698913"   "4799937"   "4824360"   "4847054"   "4855111"   "4973457").PN. OR ("5453254").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/30 15:50
S52	18	S51 and fluidized adj bed	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/30 15:52
S53	14	US-5656243-\$.DID. OR US- 5453254-\$.DID. OR US- 4746752-\$.DID. OR US- 4456504-\$.DID. OR US- 6184176-\$.DID. OR US- 3851405-\$.DID. OR US- 2931711-\$.DID. OR US- 4337120-\$.DID. OR US- 3850582-\$.DID. OR US- 5914292-\$.DID. OR US- 2951034-\$.DID. OR US- 4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 15:53
S54	11	S53 and fluidized adj bed	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/30 15:55
S55	1	("4456504").PN.	USPAT; USOCR	OR	OFF	2006/10/30 15:56
S56	14	US-5656243-\$.DID. OR US- 5453254-\$.DID. OR US- 4746752-\$.DID. OR US- 4456504-\$.DID. OR US- 6184176-\$.DID. OR US- 3851405-\$.DID. OR US- 2931711-\$.DID. OR US- 4337120-\$.DID. OR US- 3850582-\$.DID. OR US- 5914292-\$.DID. OR US- 2951034-\$.DID. OR US- 4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2006/10/30 19:19
S57	0	208/208R,247,299.ccls. and Fluidized adj bed and S56	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/30 19:19

S58	14	US-5656243-\$.DID. OR US-5453254-\$.DID. OR US-4746752-\$.DID. OR US-4456504-\$.DID. OR US-6184176-\$.DID. OR US-3851405-\$.DID. OR US-2931711-\$.DID. OR US-4337120-\$.DID. OR US-3850582-\$.DID. OR US-5914292-\$.DID. OR US-2951034-\$.DID. OR US-4897179-\$.DID.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/15 18:17
S59	0	S58 and dense adj bed	USPAT	OR	OFF	2007/04/15 18:17
S60	1	S58 and dense with bed	USPAT	OR	OFF	2007/04/15 18:22
S61	0	S58 and fixed adj fluidized	USPAT	OR	OFF	2007/04/15 18:22
S62	1187	208/208R,247,299.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/15 18:22
S63	0	S62 and fixed adj fluidized adj bed same dense with bed	USPAT	OR	OFF	2007/04/15 18:24
S64	0	S62 and fixed adj fluidized adj bed same dense	USPAT	OR	OFF	2007/04/15 18:23
S65	5	S62 and fixed adj fluidized adj bed	USPAT	OR	OFF	2007/04/15 18:23
S66	2	fixed adj fluidized adj bed same dense with bed	USPAT	OR	OFF	2007/04/15 18:28
S67	0	S62 and fluidized adj bed same dense with bed and fluidized adj bed same particle with density	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/15 18:30
S68	1	S62 and fluidized same dense and fluidized same particle with density	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/15 18:31
S69	7	S62 and catalyst with bed same dense	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/15 18:33
S70	1	("4827069").PN.	USPAT; USOCR	OR	OFF	2007/04/15 18:34
S71	1	("4992607").PN.	USPAT; USOCR	OR	OFF	2007/04/15 18:34
S72	1	("6146519").PN.	USPAT; USOCR	OR	OFF	2007/08/29 16:09

3/ 28/ 2008 7:07:26 PM



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